

AREAL GEOLOGY

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STATE OF NEW JERSEY
HENRY B. KÜMMEL
STATE GEOLOGIST
(Raritan)

NEW JERSEY - PENNSYLVANIA
TRENTON QUADRANGLE

LEGEND

LEGEND

SEDIMENTARY ROCKS

COs

Shenandoah limestone

(blue crystalline, siliceous, magnesian limestone)

Cc

Chickies quartzite

(quartz conglomerate and quartz schists)

UNCONFORMITY

fr

Franklin limestone

(crystalline white limestone)

wg

Wissahickon mica gneiss

(banded quartz-feldspar, biotite rock)

bgn

Baltimore gneiss

(banded quartz-feldspar, hornblende or biotite)

IGNEOUS ROCKS

(Areas of igneous rocks are shown by patterns of triangles and rhombs)

kbs

Basalt flows in Newark group

(includes some dikes)

hdb

Diabase

(includes small bodies of syenite)

gb

Gabbro

(gabbro, hypersthene gabbro, and norite)

sp

Metaproxenite and metaproxenite

(serpentine, scapolite, anthophyllite, and associated alteration products)

hgn

Hornblende gneiss

(hornblende, orthoclase rock)

Faults

Concealed faults

(covered by later deposits)

Strike and dip of stratified rocks

Economic data

Quarries, building stone, road material, and lime

Abandoned copper mine

Barite prospect

Fits in surficial deposits

c, clay; s, sand; g, gravel

Note: Building stone can be obtained from bgn, wg, COs, kbs, and fr road material from bgn, wg, hgn, gb, Cc, COs, hdb, wg, COs, Qps, and Qcm; limestone for lime from COs; sand for building and molding from Cc, Ks, Km, Kk, Kml, Krb, Kv, Tk, Qs, Qp, and Qcm; brick clay from Ks, Km, Kk, Kml, and Qcm; refractory clay from Ks, gravel from Qs, Qp, and Qcm; marl for fertilizer from Kms, Kmt, Kns, Kh, and Km.

SEDIMENTARY ROCKS

(Areas of unclassified deposits are shown by patterns of parallel lines; surficial deposits by patterns of dots and circles)

Quc

Unclassified deposits

(gravel, sand, and clay of various ages; frequently includes some recent alluvium and swamp mud)

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Qcm

Cape May formation

(gravel, sand, and clay forming low terraces; includes some recent alluvium and swamp mud)

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Qps

Pensauken formation

(gravel and sand on higher terraces and capping hills and divides)

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Qb

Badgeton formation

(gravel and sand, capping higher hills and divides)

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Te

Cohansey sand

(coarse sand with clay lenses)

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Tk

Kirkwood formation

(fine, gray, micaceous sand and locally beds of clay)

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Kmq

Manasquan formation

(dark green and gray glauconitic marl)

Kv

Vincentown sand

(quartz and fine sand, the latter mostly indurated)

Kh

Horterstown marl

(dark green glauconitic marl)

Krb

Redbank sand

(highly colored and black ferruginous sand with many concretions)

Kns

Navesink marl

(dark green glauconitic marl)

Kml

Mount Laurel and Wenonah sands

(varicolored quartz sand, upper portion marl and coarse, lower portion fine and contains a diverse fauna, but not separated on map)

Kmt

Marshalltown formation

(black sandy clay and sand, marl)

Ke

Englishtown sand

(varicolored sand somewhat lignitic, with occasional thin clay lenses)

Kwb

Woodbury clay

(black to dark-colored clay, usually nonglauconitic)

Kmv

Merchantville clay

(black sandy clay, usually glauconitic)

Km

Magothy formation

(light-colored sand and clay, the latter laminated and often black)

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Kr

Raritan formation

(varicolored clay, some highly refractory, some laminated with coarse cross-bedded sand and some gravel lenses)

UNCONFORMITY

Tb

Brunswick shale

(soft red shale with few sandstone beds)

Tr

Lockington formation

(dark argillite and fine-grained shaly sandstone)

Trs

Stockton formation

(gray sandstone, gneiss, and red shale)

UNCONFORMITY

Legend is continued on the left margin.



Topography by Geological Survey of New Jersey and U.S. Geological Survey. Reduced from Princeton, Burlington, Bordentown and Lambertville sheets. Surveyed in 1885-88. Revised in 1904-05.

SURVEYED IN COOPERATION WITH THE STATES OF NEW JERSEY AND PENNSYLVANIA.

Scale 1:25,000
1 2 3 4 5 Miles
1 2 3 4 5 Kilometers

Contour interval 20 feet.

Datum is mean sea level.

Edition of Mar. 1909.

Geology of pre-Triassic rocks by F. Bascom; Triassic by N.H. Darton and H.B. Kümmel; Cretaceous and Tertiary by W.B. Clark, G.N. Knapp, B.L. Miller, H.B. Kümmel, A. Bibbins, E.W. Berry; Quaternary of New Jersey by G.N. Knapp. Surveyed in 1893 to 1907.

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